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8/24/02
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7217/66557

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Mohammad Ghavami
Serial No. : 10/084,547
Filed : February 26, 2002
For : WIDE-BAND ARRAY ANTENNA
Group A.U. : 3662

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Jay H. Maioli
27,213

Date Reg. No.
June 19, 2002

June 19, 2002
1185 Avenue of the Americas
New York, NY 10036

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to the initial examination of the above-identified application,
Applicants respectfully request that the application be amended as follows.

IN THE ABSTRACT OF THE DISCLOSURE

Please amend the Abstract by rewriting same to read as follows.

a A wide-band array antenna using a single real-valued multiplier for each
antenna element is simple in construction and suitable for wide-band code
division multiple access (WCDMA) mobile communication systems. A rectangular
array antenna is formed by N x M antenna elements. Each antenna element has a
frequency dependent gain which is the same for all elements. Each antenna
element is connected to said single real-valued multiplier with a single